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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/689,543	10/689,543 10/21/2003		Lionel Fomperie	Q77844	9319
23373	7590	08/20/2004		EXAMINER	
SUGHRUI			WYROZEBSKI LEE, KATARZYNA I		
2100 PENNSYLVANIA AVENUE, N.W. SUITE 800				ART UNIT	PAPER NUMBER
WASHING	TON, DC	20037		1714	

DATE MAILED: 08/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/689,543	FOMPERIE ET AL.					
Office Action Summary	Examiner	Art Unit					
	Katarzyna Wyrozebski	1714					
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address					
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	rely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on	•						
	action is non-final.						
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ⊠ Claim(s) 12-15 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 12-15 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	n from consideration.						
Application Papers							
9) The specification is objected to by the Examine							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the	frawing(s) be held in abeyance. See	37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Example 11.	, , , , ,	• •					
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 09/866,836. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 10/03. 		te atent Application (PTO-152)					

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Note

In order to properly obtain benefit of the domestic priority, and per MPEP regulation, first paragraph of the specification should contain information regarding domestic priority.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 12-15 are rejected under 35 U.S.C. 102(b) as being anticipated by PINNAVAIA (US 5,866,645).

The prior art of PINNAVAIA discloses composition and process for preparing organic-inorganic hybrid clay nanocomposites.

In the process of PINNAVAIA the clay component is first intercalated with organic ammonium (O) and inorganic metal precursor (I) to obtain O/I hybrid clay. The clay is washed in ethanol/water solution dried and mixed with either polymer precursor

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or polymer melt to form nanocomposite (col. 13, lines 40-50) and examples. The excess inorganic compound is removed (eq. 1 col. 15) washed and dried.

Clay of PINNAVAIA is selected from smectite type swellable clays such as montmorillonite, smectite, beidelite and the like (col. 14, lines 60-67).

Polymers utilized can be thermoset or thermoplasts. Thermosets include polyethers, polyurethanes, epoxies, phenolics and the like (col. 18, lines 46-54). Thermoplasts include polyamides, polyesters, proteins, polyolefins and the like (col. 20, lines 31-39).

Metal precursors are selected from alkali metals, alkaline earth metals and mixtures thereof (col. 13, lines 42-47).

In the light of the above disclosure, the prior art of PINNAVAIA anticipates the requirements of claims rejected above.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Katarzyna Wyrozebski whose telephone number is (571) 272-1127. The examiner can normally be reached on Mon-Thurs 6:30 AM-4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (571) 272-1119. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Katarzyna Wyrozebsk

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August 18, 2004